PATENT ABSTRACTS OF JAPAN

(11)Publication number:

10-245354

(43) Date of publication of application: 14.09.1998

(51)Int.CI.

CO7C 43/303 B01J 31/04 CO7C 41/56 // CO7B 61/00

(21)Application number: 09-048024

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(22) Date of filing:

03.03.1997

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(54) PRODUCTION OF ACETAL COMPOUND

))Abstract:

PROBLEM TO BE SOLVED: To obtain an acetal compound of a ketone or aldehyde functional group with a simple, inexpensive method, which uses no other substances than essential alcohol and a catalyst, by reacting an aldehyde or ketone compound with an alcohol in the presence of a catalytic amount of vanadium acetate.

SOLUTION: The aldehyde compound is expressed by the formula of R2CHO (R2 is a 1-10C normal alkyl, etc.), the ketone compound is expressed by the formula of R3COR4 (R3 and R4 are each a 1-10C normal alkyl, etc.) and the alcohol is expressed by the formula of R10H (R1 is a 1-6C normal alkyl, etc.). The amount of the alcohol uses as a solvent is preferably in such a range that a raw material aldehyde or ketone becomes 0.5-5.0mol/L in concentration, and the use of vanadium acetate is in the range of 0.0001-0.1 equivalent based on the raw material aldehyde or ketone. The reaction is commonly carried out in nitrogen atmosphere at a temperature in the range of 0-70° C. After the reaction, the reaction mixture is filtered or extracted with hexane and water followed by drying and condensing to obtain the objective compound.

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ate of request for examination]

19.05.2000

[Date of sending the examiner's decision of

25.10.2002

rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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